INTERNATIONAL SEARCH REPORT

International application No
PCT/US2008/059798

A. CLASSIFICATION OF SUBJECT MATTER
INV. G06F17/30

According to International Patent Classification (IPC) or to both national classification and IPC

B. FIELDS SEARCHED

Minimum documentation searched (classification system followed by classification symbols)
G06F

Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched

Electronic data base consulted during the international search (name of data base and, where practical, search terms used)
EPO-Internal

C. DOCUMENTS CONSIDERED TO BE RELEVANT

Category*	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
X	US 2005/192993 A1 (MESSINGER ADAM [US]) 1 September 2005 (2005-09-01) paragraphs [0028] - [0031] figure 6 ----- -/--	1-38

[X] Further documents are listed in the continuation of Box C.

[X] See patent family annex.

* Special categories of cited documents :

"A" document defining the general state of the art which is not considered to be of particular relevance

"E" earlier document but published on or after the international filing date

"L" document which may throw doubts on priority claim(s) or which is cited to establish the publication date of another citation or other special reason (as specified)

"O" document referring to an oral disclosure, use, exhibition or other means

"P" document published prior to the international filing date but later than the priority date claimed

"T" later document published after the international filing date or priority date and not in conflict with the application but cited to understand the principle or theory underlying the invention

"X" document of particular relevance; the claimed invention cannot be considered novel or cannot be considered to involve an inventive step when the document is taken alone

"Y" document of particular relevance; the claimed invention cannot be considered to involve an inventive step when the document is combined with one or more other such documents, such combination being obvious to a person skilled in the art.

"&" document member of the same patent family

Date of the actual completion of the international search	Date of mailing of the international search report
18 February 2009	18/05/2009

Name and mailing address of the ISA/	Authorized officer
European Patent Office, P.B. 5818 Patentlaan 2 NL - 2280 HV Rijswijk Tel. (+31-70) 340-2040, Fax: (+31-70) 340-3016	Zubrzycki, Wojciech

INTERNATIONAL SEARCH REPORT

International application No
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C(Continuation). DOCUMENTS CONSIDERED TO BE RELEVANT

Category*	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
A	KUMAR A ED - INSTITUTE OF ELECTRICAL AND ELECTRONICS ENGINEERS: "An analysis of borrowing policies for escrow transactions in a replicated data environment" PROCEEDINGS OF THE INTERNATIONAL CONFERENCE ON DATA ENGINEERING. LOS ANGELES, FEB. 5 - 9, 1990; [PROCEEDINGS OF THE INTERNATIONAL CONFERENCE ON DATA ENGINEERING], LOS ALAMITOS, IEEE. COMP. SOC. PRESS, US, vol. CONF. 6, 5 February 1990 (1990-02-05), pages 446-454, XP010018185 ISBN: 978-0-8186-2025-6 page 446, left-hand column, line 1 - page 447, last line	1-38
A	US 6 408 313 B1 (CAMPBELL DAVID G [US] ET AL) 18 June 2002 (2002-06-18) abstract	1-38

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Box No. II Observations where certain claims were found unsearchable (Continuation of item 2 of first sheet)

This international search report has not been established in respect of certain claims under Article 17(2)(a) for the following reasons:

1. ☐ Claims Nos.:
because they relate to subject matter not required to be searched by this Authority, namely:

2. ☐ Claims Nos.:
because they relate to parts of the international application that do not comply with the prescribed requirements to such an extent that no meaningful international search can be carried out, specifically:

3. ☐ Claims Nos.:
because they are dependent claims and are not drafted in accordance with the second and third sentences of Rule 6.4(a).

Box No. III *Observations where unity of invention is lacking* (Continuation of item 3 of first sheet)

This International Searching Authority found multiple inventions in this international application, as follows:

see additional sheet

1. ☐ As all required additional search fees were timely paid by the applicant, this international search report covers allsearchable claims.

2. ☐ As all searchable claims could be searched without effort justifying an additional fees, this Authority did not invite payment of additional fees.

3. ☐ As only some of the required additional search fees were timely paid by the applicant, this international search reportcovers only those claims for which fees were paid, specifically claims Nos.:

4. ☒ No required additional search fees were timely paid by the applicant. Consequently, this international search report is restricted to the invention first mentioned in the claims; it is covered by claims Nos.:

1-38

Remark on Protest

☐ The additional search fees were accompanied by the applicant's protest and, where applicable, the payment of a protest fee.

☐ The additional search fees were accompanied by the applicant's protest but the applicable protest fee was not paid within the time limit specified in the invitation.

☐ No protest accompanied the payment of additional search fees.

FURTHER INFORMATION CONTINUED FROM PCT/ISA/ 210

This International Searching Authority found multiple (groups of) inventions in this international application, as follows:

1. claims: 1-38

   A method for carring out commutative transactions on objects for which lower and/or upper bound restrictions were defined.

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2. claims: 39-59

   A method for controling the amount of storage space allocated to data domains of the storage system.

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3. claims: 60-114

   A method for controlling the usage of a resource in a computer system having a number of threads.

INTERNATIONAL SEARCH REPORT

Information on patent family members

International application No
PCT/US2008/059798

Patent document cited in search report	Publication date	Patent family member(s)	Publication date
US 2005192993 A1	01-09-2005	AU 2003232121 A1	12-12-2003
		WO 03100661 A1	04-12-2003
US 6408313 B1	18-06-2002	NONE	